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Release 3.1A John F. Collins, Biocomputing Research Unit.  
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**MPSrch\_tpn** n.a. - n.a. Smith-Waterman search, using a protein query  
which has been backtranslated into n.a. using IUPAC symbols

Run on: Fri Oct 22 08:00:26 1999; MasPar time 128.73 Seconds

Tabular output not generated.

Title: >US-08-978-217-12

Description: (1-16) from US08978217.pep

Perfect Score: 205

N.A. Sequence: 1 AARAAYWSNWSNGNTGGAARGARGARGTNYTCARNNSMGNAAY 48

Comp: TYTYTRWSNWNCNACCTTCYCTYCYTICANRANGTYNSNKCNTR

**Scoring table:** TABLE\_bktranslate2  
**Gap** 40  
**Nmatch** 360 **STD**: Dbase 0; Query 0  
**Searched:** 2883791 seqs, 1171580779 bases x 2  
**Post-processing:** Minimum Match 0% summaries

**Database:**

embl-est58  
1:em...est10 2:em...est11 3:em...est17 4:em...est18 5:em...est2

6:em...est9 7:em...gss1  
gebank-est11  
8:gb...est1 9:gb...est10 10:gb...est11 11:gb...est12 12:gb...est13  
13:gb...est14 14:gb...est15 15:gb...est16 16:gb...est17  
17:gb...est18 18:gb...est19 19:gb...est2 20:gb...est20  
21:gb...est21 22:gb...est22 23:gb...est23 24:gb...est24  
25:gb...est25 26:gb...est26 27:gb...est27 28:gb...est28  
29:gb...est29 30:gb...est3 31:gb...est4 32:gb...est5 33:gb...est6  
34:gb...est7 35:gb...est8 36:gb...est9 37:gb...gss1 38:gb...gss2  
39:gb...gss3 40:gb...gss4 41:gb...gss5 42:gb...gss6

**Statistics:**  
Mean 51.043; Variance 79.865; scale 0.639  
Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

### SUMMARIES

Result No.	Score	Query Match Length	DB ID	Description	Pred. No.
1	193	94.1	300	R50578	1
c	2	94.1	381	YJ160d04.rl Soares_brea	3.93e-16
c	3	94.1	35	Zml0C02.rl Stratagene	3.93e-16
c	4	94.1	440	H2657	3.93e-16
c	5	94.1	193	Hbc2545 Human_pancrat	3.93e-16
c	6	82.0	168	R3021	3.93e-16
c	7	79.5	163	A1570386	3.93e-16
c	8	79.5	280	A560673	4.47e-11
c	9	79.5	476	A104810	4.47e-10
c	163	79.5	489	vn23e03.rl Knowles_Sol	4.25e-10
c	18	79.5	489	vn91h09.rl Knowles_Sol	4.25e-10

### ALIGNMENTS

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10 163 79.5 496 14 AA518792 mRNA  
11 147 71.7 159 31 F14618 SSOH10 Porcine small 4.69e-07  
12 143 69.8 472 35 C06679 Rat pancreatic 2.56e-06  
13 131 63.9 496 36 AA085339 zna4q11.rl Stratagene 2.56e-06  
14 15 123 60.0 154 20 AA921310 H2798B Soares\_Brea 3.60e-04  
15 123 60.0 908 37 B12595 Barstead sp 8.46e-03  
16 121 59.0 522 41 AQ373192 IGF Arabidop 8.46e-03  
17 118 57.6 290 26 RPCI11-146M16.TJ RPCI1 1.83e-02  
18 121 59.0 592 41 AQ372001 RPCI11-146M15.TJ RPCI1 1.83e-02  
19 118 57.6 139 15 C67543 Yuji Kohara unp 5.72e-02  
20 118 57.6 234 9 AA145095 mr08d06.rl Soares\_mous 5.72e-02  
21 118 57.6 251 10 AA290098 vb33c01.rl Soares\_mous 5.72e-02  
22 118 57.6 269 9 AA290108 vb32f01.rl Soares\_mous 5.72e-02  
23 118 57.6 273 9 AQ097118 HS\_3036.R2\_E0\_MR CIT 5.72e-02  
24 118 57.6 290 26 C61687 Yuji Kohara unp 5.72e-02  
25 118 57.6 360 15 C85301 Mouse\_fertilize 5.72e-02  
26 118 57.6 390 22 A104957 an3b01.rl Gessler\_Wil 5.72e-02  
27 118 57.6 398 9 AA159850 w26a04.rl Stratagene 5.72e-02  
28 118 57.6 400 13 AA428486 zw44b08.rl Soares\_tota 5.72e-02  
29 118 57.6 406 13 AA469910 zt94e02.rl Soares\_test 5.72e-02  
30 118 57.6 510 28 A1524038 tgg9911.XL NCI\_CGAP CL 5.72e-02  
31 118 57.6 550 41 nbxt006418f.CUGI\_Rice 5.72e-02  
32 118 57.6 700 41 AQ366158 nbx60065104f.CUGI\_Rice 5.72e-02  
33 118 57.6 359 15 AA597128 vo27h12.rl Barstead\_mo 5.72e-02  
34 117 57.1 388 32 D81724 RUM0208B Human\_fetal 8.33e-02  
35 117 57.1 401 9 AA174897 ms81a07.rl Soares\_mous 8.33e-02  
36 117 57.1 433 32 D81630 RUM179C07B Human\_fetal 8.33e-02  
37 117 57.1 441 13 AA410184 zv2d04.s1 Soares\_NHM 8.33e-02  
38 117 57.1 476 16 AA670700 vs90d01.rl Barstead\_mo 8.33e-02  
39 117 57.1 516 40 HS\_3064.E10\_MR CIT 8.33e-02  
40 117 57.1 516 32 D81792 RUM08A08B\_Human\_fetal 8.33e-02  
41 117 57.1 570 41 A0318697 RPCI11-98M4.TV RPCI1 8.33e-02  
42 117 57.1 226 30 R81448 YJ02d4.rl Soares\_Plac 8.33e-02  
43 116 56.6 740 41 A0330760 nbx0047J18.CUGI\_Rice 1.21e-01  
44 115 56.1 488 41 AQ331608 HS\_5001.AL\_H08\_SP6E RP 1.75e-01



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 /clone.lib="Soares placenta Nb2HP"  
 /sex="Female"  
 /dev\_stage="placenta obtained at birth (full term)"  
 /lab\_host="DHL0B (ampicillin resistant)"  
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 Matches 25; Conservative 16; Mismatches 7; Indels 16; Mismatches 7; Gaps 0;  
 SOURCE Homo sapiens  
 ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;  
 Eutheria; Primates; Catarrhini; Hominidae; Homo.  
 AUTHORS 1 (bases 1 to 463)  
 Hillier,L., Clark,N., Dubuge,T., Elliston,K., Hawkins,M.,  
 Holman,M., Hultman,M., Kucaba,T., Le,M., Lennon,G., Maira,M.,  
 Parsons,J., Riffkin,L., Roelfing,T., Soares,M., Tan,F.,  
 Trevaskis,E., Waterston,R., Williamson,A., Wohldmann,P. and  
 Wilson,R.  
 TITLE The WashU-Merck EST Project  
 JOURNAL Unpublished (1995)  
 COMMENT On May 9, 1995 this sequence version replaced gi:802810.  
 CONTACT Contact: Wilson RK  
 Washington University School of Medicine  
 4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108  
 Tel: 314 286 1800  
 Fax: 314 286 1810  
 Email: est@wuston.wustl.edu  
 Insert Size: 829  
 High quality sequence stops: 348  
 Source: IMAGE Consortium, LILN  
 This clone is available royalty-free through LILN; contact the  
 IMAGE Consortium (info@image.lnl.gov) for further information.  
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 Seq primer: M13Rp1  
 High quality sequence stop: 348.  
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 /organism="Homo sapiens"  
 /note="Organ: breast; Vector: PT7T3D (Pharmacia) with a  
 modified polylinker; Site\_1: Not I; Site\_2: Eco RI; 1st  
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 TGTACCAATCTGAGTGGAACGCCGCCTTTTTTTTTTTTTTTTTT-3'],  
 double-stranded cDNA was ligated to Eco RI adaptors  
 (Pharmacia), digested with Not I and cloned into the Not I  
 and Eco RI sites of a modified pRT3 vector (Pharmacia).  
 Library went through one round of normalization to a Cot =  
 230. Library constructed by Bento Soares and M.Patima  
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 /sex="Female"  
 /dev\_stage="adult"  
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 BASE COUNT 107 a 121 c 135 g 97 t 3 others  
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 Matches 25; Conservative 16; Mismatches 7; Indels 16; Mismatches 7; Gaps 0;  
 SOURCE Homo sapiens  
 ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;  
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 /note="Organ: breast; Vector: PT7T3D (Pharmacia) with a  
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 /clone.lib="Soares placenta Nb2HP (ampicillin resistant)"  
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 /dev\_stage="adult"  
 /lab\_host="DHL0B (ampicillin resistant)"  
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 BASE COUNT 107 a 121 c 135 g 97 t 3 others  
 ORIGIN  
 Query Match 94.1%; Score 193; DB 30; Length 463;  
 Best Local Similarity 52.1%; Pred. No. 3. 93e-16; Indels 16; Mismatches 7; Gaps 0; EST 29-MAR-1999  
 Matches 25; Conservative 16; Mismatches 7; Indels 16; Mismatches 7; Gaps 0;  
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Tue Oct 26 15:35:47 1999

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Search completed: Fri Oct 22 08:20:43 1999  
Job time : 1217 secs.